Getting Acquainted

Warning!
- The measurement functions built into this watch are not intended for use in taking measurements that require professional or industrial precision. Values produced by this watch should be considered as reasonably accurate representations only.
- The longitude, latitudinal interval, Moon phase indicator and tide graph data that appear on the display of this watch are not intended for navigation purposes. Always use proper instruments and resources to obtain data for navigation purposes.
- This watch is not an instrument for calculating low tide and high tide times. The tide graph of this watch is intended to provide a reasonable approximation of tidal movements only.
- CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this watch.

About This Manual
- Button operations are indicated using the letters shown in the illustration.
- Each section of this manual provides you with the information you need to perform operations in each mode. Further details and technical information can be found in the “Reference” section.

General Guide
- Press [A] to change from mode to mode.
- In any mode (except when a setting screen is on the display), press [B] to illuminate the display.

Timekeeping
Use the Timekeeping Mode to set and view the current time and date.
- The tide graph shows tidal movements for the current date in accordance with the current time as kept in the Timekeeping Mode.
- The Moon phase indicator shows the current Moon phase in accordance with the current date as kept in the Timekeeping Mode.

Important!
- Be sure to configure the current time and date, and your Home Site data (data for the site where you use the watch) correctly before using the functions of this watch. See “Home Site Data” for more information.

Setting the Time and Date
This watch is preset with UTC offset values that represent each time zone around the globe. Before setting the time, be sure to set the UTC offset for your Home Site first, which is the location where you normally will be using the watch.
- Note that World Time Mode times are all displayed based on the time and date settings you configure in the Timekeeping Mode.

To set the time and date
1. In the Timekeeping Mode, hold down [A] until the seconds start to flash, which indicates the setting screen.
- Be sure to configure the correct UTC offset for your Home Site before configuring any other Timekeeping Mode settings.
- See the "City Code Table" for information about the UTC offset settings that are supported.
2. Press [C] to move the flashing in the sequence shown below to select other settings.

Press [C].

Timekeeping Mode Tide/Moon Data Mode Stopwatch Mode (ST1)

Stethoscope Mode (ST2)

Stopwatch Mode (ST3)

Countdown Timer Mode

Alarm Mode

World Time Mode

3. When the setting you want to change is flashing, use [D] and [E] to change it as described below.

Screen To do this:

Do this:

00
Reset the seconds to 00.
Press [B].

3:00
Specify the UTC offset.
Use [D] (+) and [E] (–).

05:58
Change the hour or minutes.
Use [D] (+) and [E] (–).

0:00
Change the year.

0:30
Change the month or day.

See “Daylight Saving Time (DST)” for details about DST setting.
- The UTC offset setting range is –12.0 to +14.0, in 0.5-hour units.
- When DST is turned on, the UTC offset setting range is –11.0 to +15.0, in 0.5-hour units.

4. Press [F] twice to exit the setting screen.
- The day of the week is displayed automatically in accordance with the date (year, month, and day) settings.

Daylight Saving Time (DST)
Daylight Saving Time (summer time) advances the time setting by one hour from Standard Time. Remember that not all countries or even local areas use Daylight Saving Time.

To toggle the Timekeeping Mode time between DST and Standard Time
1. In the Timekeeping Mode, hold down [D] until the seconds start to flash, which indicates the setting screen.
2. Press [C] to display the DST setting screen.
3. Press [D] to toggle between Daylight Saving Time (ST1 displayed) and Standard Time (ST2 displayed).
4. Press [E] twice to exit the setting screen.
- The DST indicator appears on the Tide/Moon Data screen to indicate that Daylight Saving Time is turned on. In the case of the Tide/Moon Data Mode, the DST indicator appears on the Tide Data screen only.

To toggle between 12-hour and 24-hour timekeeping
In the Timekeeping Mode, press [G] to toggle between 12-hour timekeeping and 24-hour timekeeping.
- With the 12-hour format, the P (PM) indicator appears to the left of the hour digits for times in the range of noon to 11:59 p.m. and no indicator appears to the left of the hour digits for times in the range of midnight to 11:59 p.m.
- With the 24-hour format, times are displayed in the range of 0:00 to 23:59, without any indicators.
- The 12-hour/24-hour timekeeping format you select in the Timekeeping Mode is displayed in other modes.
- The P indicator is not displayed when the current time is displayed in other modes.

- The measurement functions built into this watch are not intended for use in taking measurements that require professional or industrial precision. Values produced by this watch should be considered as reasonably accurate representations only.
- The longitude, latitudinal interval, Moon phase indicator and tide graph data that appear on the display of this watch are not intended for navigation purposes. Always use proper instruments and resources to obtain data for navigation purposes.
- This watch is not an instrument for calculating low tide and high tide times. The tide graph of this watch is intended to provide a reasonable approximation of tidal movements only.
- CASIO COMPUTER CO., LTD. assumes no responsibility for any loss, or any claims by third parties that may arise through the use of this watch.
Home Site Data

Moon phase, Site graph data, and Tide/Moon Data Mode data will not be displayed properly unless Home Site data (UTC offset, longitude, and lunitidal interval) is configured.

- The UTC offset is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located.
- The letters “UTC” is the abbreviation for “Coordinated Universal Time”, which is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately to within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth’s rotation.
- The lunitidal interval is the time elapsed between the Moon’s transit over a meridian and the next high tide at that meridian. See “lunitidal interval” for more information.
- This watch displays lunitidal intervals in terms of hours and minutes.
- The “Lunitidal Interval Data List” provides UTC offset and longitude information around the world.
- The following is the initial factory default Home Site data (Tokyo, Japan) when you first purchase the watch, and whenever you have the battery replaced. Change these settings to match the area where you normally use the watch.

UTC offset (±9:0:0); Longitude (East 140 degrees); Lunitidal interval (5 hours, 26 minutes).

To configure Home Site data

1. In the Timekeeping Mode, hold down A until the seconds start to flash, which indicates the setting screen.
2. Press C twice to display the UTC offset setting screen, and confirm that the setting is correct.
3. If the UTC offset setting is not correct, use D (+) and B (-) to change it.
4. Press A to display the longitude value setting screen.
5. When the setting you want to change is flashing, use A and B to change it as described below.
6. Press B to exit the setting screen.

Stopwatches

Your watch has two stopwatch modes: StopWatch Mode (ST1) and StopWatch Mode (ST2). With stopwatch modes you may measure elapsed time, split times, and two finishes. The StopWatch Mode (ST1) includes Auto-Start.

- A display range of the stopwatch is 999 hours, 59 minutes, 59.99 seconds.
- A stopwatch continues to run, restarting from zero after it reaches its limit, until you stop it.
- A stopwatch measurement operation continues even if you exit a StopWatch Mode.
- Exiting a StopWatch Mode while a split time is frozen on the display clears the split time and returns to elapsed time measurement.
- All of the operations in this section are performed in the StopWatch Mode (ST1) or StopWatch Mode (ST2), which you enter by pressing C.

To use StopWatch Mode (ST1)

1. While the stopwatch screen is showing all zeros in the StopWatch Mode, press C. This displays a 5-second countdown screen.
2. To return to the all zeros screen, press C again.
3. Press B to start the countdown.
4. When the countdown reaches zero, a tone sounds and a stopwatch timing operation starts automatically.
5. Pressing C while the Auto-Start countdown is in progress starts the stopwatch immediately.

To configure StopWatch Mode (ST1)

1. While the stopwatch screen is showing all zeros in the StopWatch Mode, press C. This displays a 5-second countdown screen.
2. You can specify a data in the range of January 1, 2000 to December 31, 2099.
3. Press A to move the flashing in the sequence shown below to select the other settings.
4. Press B to exit the setting screen.
5. Use A to display either the time data screen or the Moon data screen.

Moon phase indicator

Tide/Moon Data lets you view the Moon age and Moon phase for a particular data and date at your Home Site.

- When you enter the Tide/Moon Data Mode, the data for 6:00 a.m. on the current data appears first.
- If you suspect that the Tide/Moon data is not correct for some reason, check the Timekeeping Mode data (current time, date, and Home Site settings), and make changes as required.
- See “Moon Phase Indicator” for information about the Moon phase indicator and “Tide graph” for information about the tide graph.
- All of the operations in this section are performed in the Tide/Moon Data Mode, which you enter by pressing C.

To use Auto-Start (ST1)

1. While the stopwatch screen is showing all zeros in the StopWatch Mode, press C. This displays a 5-second countdown screen.
2. To return to the all zeros screen, press C again.
3. Press B to start the countdown.
4. When the countdown reaches zero, a tone sounds and a stopwatch timing operation starts automatically.
5. Pressing C while the Auto-Start countdown is in progress starts the stopwatch immediately.

About Auto-Start (StopWatch Mode (ST1))

With Auto-Start, the watch performs a 5-second countdown, and stopwatch operation starts automatically when the countdown reaches zero.

During the final three seconds of the countdown, a beeper sounds with each second.

Countdown Timer

The countdown timer can be set within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero. The countdown timer also has an auto-repeat feature and a progress beeper that signals the progress of the countdown.

- All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing C.
- See “to configure the countdown timer” for information about setting up the Hirai.

Auto-repeat

When auto-repeat is turned on, the countdown restarts automatically from the countdown start time when it reaches zero.

When auto-repeat is turned off, the countdown stops when it reaches zero and the display shows the original countdown start time.

Progress Beeper

When the progress beeper is turned on, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.

Countdown End Beep

When the progress beeper is turned on when the countdown reaches zero.

- When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.
- When the progress beeper is turned on, the countdown end beeper sounds for about one second.

Countdown Timer Beeper Operations

The watch beeps at various times during a countdown so you can keep informed about the countdown status without looking at the display. The following describes the types of beeper operations the watch performs during a countdown.

When auto-repeat is turned on, the countdown restarts automatically from the countdown start time when it reaches zero.

When auto-repeat is turned off, the countdown stops when it reaches zero.

Progress Beeper

When the progress beeper is turned on, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.

Countdown End Beeper

When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.

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When the progress beeper is turned on, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.

Countdown End Beeper

When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.

Auto-repeat

When auto-repeat is turned on, the countdown restarts automatically from the countdown start time when it reaches zero.

When auto-repeat is turned off, the countdown stops when it reaches zero and the display shows the original countdown start time.

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- When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.
- When the progress beeper is turned on, the countdown end beeper sounds for about one second.

About Auto-Start (StopWatch Mode (ST1))

With Auto-Start, the watch performs a 5-second countdown, and stopwatch operation starts automatically when the countdown reaches zero.

During the final three seconds of the countdown, a beeper sounds with each second.

Countdown Timer

The countdown timer can be set within a range of one minute to 24 hours. An alarm sounds when the countdown reaches zero. The countdown timer also has an auto-repeat feature and a progress beeper that signals the progress of the countdown.

- All of the operations in this section are performed in the Countdown Timer Mode, which you enter by pressing C.

To configure the countdown timer

1. While the stopwatch screen is showing all zeros in the StopWatch Mode, press C. This displays a 5-second countdown screen.
2. To return to the all zeros screen, press C again.
3. Press B to start the countdown.
4. When the countdown reaches zero, a tone sounds and a stopwatch timing operation starts automatically.
5. Pressing C while the Auto-Start countdown is in progress starts the stopwatch immediately.

Configuring the Countdown Timer

The following are the settings you should configure before actually using the countdown timer.

- Start time: Auto-repeat on/off; Progress beeper on/off
- Progress beeper indicators that signal the progress of the countdown.

Countdown start time: Auto-repeat on/off; Progress beeper on/off
- Progress beeper indicators that signal the progress of the countdown.

Auto-repeat

When auto-repeat is turned on, the countdown restarts automatically from the countdown start time when it reaches zero.

When auto-repeat is turned off, the countdown stops when it reaches zero and the display shows the original countdown start time.

Progress Beeper

When the progress beeper is turned on, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.

Countdown End Beep

When the progress beeper is turned on when the countdown reaches zero.

- When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.
- When the progress beeper is turned on, the countdown end beeper sounds for about one second.

Countdown Timer Beeper Operations

The watch beeps at various times during a countdown so you can keep informed about the countdown status without looking at the display. The following describes the types of beeper operations the watch performs during a countdown.

Countdown End Beeper

When the progress beeper is turned on when the countdown reaches zero.

- When the progress beeper is turned off, the countdown end beeper sounds for about 10 seconds, or until you press any button to stop it.
- When the progress beeper is turned on, the countdown end beeper sounds for about one second.

Progress Beeper

When the progress beeper is turned on, the watch uses beeps to signal countdown progress as described below.

- Starting from five minutes before the end of the countdown, the watch emits four short beeps at the top of each countdown minute.
- 30 seconds before the end of the countdown, the watch emits four short beeps.
- The watch emits a short beep for each of the last 10 seconds of the countdown.
- If the countdown start time is six minutes or greater, the watch emits a short beep for each of the final 15 seconds before the five-minute point is reached. Four short beeps are emitted to signal when the five-minute point is reached.
To configure the countdown timer:

1. While the countdown start time is on the display in the Countdown Timer Mode, hold down \( C \) until the current countdown start time starts to flash, which indicates the setting screen.
2. If the countdown start time is not displayed, use the procedure under "To use the countdown timer" to display it.

To turn an alarm on and off:

1. In the Alarm Mode, use \( A \) to select an alarm.
2. Press \( D \) to toggle it on and off.
3. Turning on an alarm \( \text{AL}_{1} - \text{AL}_{4} \) displays the alarm on indicator, while turning on the snooze alarm \( \text{SNZ} \) displays the snooze alarm indicator.
4. In all modes, the alarm on indicator is shown for alarm that is currently turned on.
5. The alarm on indicator flashes while the alarm is set.
6. The snooze alarm indicator flashes while the snooze alarm is sounding and during the 5-minute intervals between alarms.

To set the alarm:

1. In the Alarm Mode, hold down \( A \) to sound the alarm.
2. Press \( D \) to stop the alarm tone after it starts to sound, press any button.

To configure the countdown timer:

1. In the Countdown Timer Mode to start the countdown timer.
2. The countdown timer operation continues even if you exit the Countdown Timer Mode.
3. Press \( D \) while a countdown operation is in progress to stop it.
4. To stop a countdown operation completely, first pause it by pressing \( C \), then press \( D \). This returns the countdown time to its starting value.

To view the time for another city code:

1. In the World Time Mode, press \( B \) to scroll eastwardly through city codes.
2. In the World Time Mode, press \( B \) to scroll westwardly through city codes.
3. For full information about city codes, see the "City Code Table".
4. If the current time for a city is wrong, check your Timekeeping Mode time and time zone settings and make necessary changes.

To toggle a city code time between Standard Time and Daylight Saving Time:

1. In the World Time Mode, press \( C \) for about one second to toggle Daylight Saving Time (DST displayed) and Standard Time (DST not displayed).
2. The DST Indicator is on the display whenever you display a city code for which Daylight Saving Time is turned on.
3. Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.

To test the alarm:

To turn an alarm on and off:

1. In the Alarm Mode, use \( A \) to select an alarm.
2. Press \( D \) to toggle it on and off.
3. Turning on an alarm \( \text{AL}_{1} - \text{AL}_{4} \) displays the alarm on indicator, while turning on the snooze alarm \( \text{SNZ} \) displays the snooze alarm indicator.
4. In all modes, the alarm on indicator is shown for alarm that is currently turned on.
5. The alarm on indicator flashes while the alarm is set.
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3. For full information about city codes, see the "City Code Table".
4. If the current time for a city is wrong, check your Timekeeping Mode time and time zone settings and make necessary changes.

To toggle a city code time between Standard Time and Daylight Saving Time:

1. In the World Time Mode, press \( C \) for about one second to toggle Daylight Saving Time (DST displayed) and Standard Time (DST not displayed).
2. The DST Indicator is on the display whenever you display a city code for which Daylight Saving Time is turned on.
3. Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.

To test the alarm:

To turn an alarm on and off:

1. In the Alarm Mode, use \( A \) to select an alarm.
2. Press \( D \) to toggle it on and off.
3. Turning on an alarm \( \text{AL}_{1} - \text{AL}_{4} \) displays the alarm on indicator, while turning on the snooze alarm \( \text{SNZ} \) displays the snooze alarm indicator.
4. In all modes, the alarm on indicator is shown for alarm that is currently turned on.
5. The alarm on indicator flashes while the alarm is set.
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1. In the World Time Mode, press \( B \) to scroll eastwardly through city codes.
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3. For full information about city codes, see the "City Code Table".
4. If the current time for a city is wrong, check your Timekeeping Mode time and time zone settings and make necessary changes.

To toggle a city code time between Standard Time and Daylight Saving Time:

1. In the World Time Mode, press \( C \) for about one second to toggle Daylight Saving Time (DST displayed) and Standard Time (DST not displayed).
2. The DST Indicator is on the display whenever you display a city code for which Daylight Saving Time is turned on.
3. Note that the DST/Standard Time setting affects only the currently displayed city code. Other city codes are not affected.

To test the alarm:

To turn an alarm on and off:

1. In the Alarm Mode, use \( A \) to select an alarm.
2. Press \( D \) to toggle it on and off.
3. Turning on an alarm \( \text{AL}_{1} - \text{AL}_{4} \) displays the alarm on indicator, while turning on the snooze alarm \( \text{SNZ} \) displays the snooze alarm indicator.
4. In all modes, the alarm on indicator is shown for alarm that is currently turned on.
5. The alarm on indicator flashes while the alarm is set.
6. The snooze alarm indicator flashes while the snooze alarm is sounding and during the 5-minute intervals between alarms.
Lunitidal Interval

When setting the lunitidal interval for this watch, use the time differential between the
Moon and Sun. Tides rise and fall about every six hours. The tide graph of this watch
indicates tidal movement based on the Moon and Sun. Tides are the periodic rise and fall of the water of oceans, seas, bays, and other bodies of water caused primarily by the gravitational interactions between the Earth, Moon, and Sun. Tides rise and fall about every six hours. The tide graph of this watch is based on the current Moon age starting from day 0 of the moon age cycle. This watch performs calculations using integer values only (no fractions), the margin for error of the displayed Moon age is ±1 day.

Tide Graph

The Tide Graph has six graphic segments, each of which indicates a different tide level. The current tide level is indicated by the displayed graphic segment.

Tidal Movements

Tides are the periodic rise and fall of the water of oceans, seas, bays, and other bodies of water caused primarily by the gravitational interactions between the Earth, Moon, and Sun. Tides rise and fall about every six hours. The tide graph of this watch is based on the current Moon age starting from day 0 of the moon age cycle. This watch performs calculations using integer values only (no fractions), the margin for error of the displayed Moon age is ±1 day.

Lunisdiurnal Interval

Theoretically, high tide is at the Moon's transit over the meridian and low tide is about six hours later. Actual high tide occurs somewhat later, due to factors such as viscosity, friction, and underwater topography. Both the time differential between the Moon's transit over the meridian until high tide and the time differential between the Moon's transit over the meridian until low tide are known as the "lunisdiurnal interval". When setting the lunisdiurnal interval for this watch, use the time differential between the Moon's transit over the meridian until high tide.

Warning!

• Always make sure you are in a safe place whenever you are reading the watch using the auto light switch. Be especially careful when running or engaged in any other activity that can result in accident or injury. Also take care that sudden illumination by the auto light switch does not startle or distract others around you.
• When you are wearing the watch, make sure that its auto light switch is turned off before riding on a bicycle or operating a motorcycle or any other motor vehicle. Sudden and unintended operation of the auto light switch can create a distraction, which can result in a traffic accident and serious personal injury.

To turn the auto light switch on and off

In the Timekeeping Mode, hold down □ for about three seconds to toggle the auto light switch on (auto light switch indicator displayed) or off (auto light switch indicator not displayed).

• The auto light switch indicator is on the display in all modes while the auto light switch is turned on.
• In order to protect against running down the battery, the auto light switch turns off automatically approximately six hours after you turn it on.

Reference

This section contains more detailed and technical information about watch operation. It also contains important precautions and notes about the various features and functions of this watch.

Moon Phase Indicator

The Moon phase indicator of this watch indicates the current phase of the Moon as shown below. This watch may emit an audible sound whenever the display is illuminated. This is due to vibration of the EL panel used for illumination, and does not indicate malfunction.

Flash Alert

When Flash Alert is turned on, the illumination flashes for the alarms, the Hourly Time Signal, the countdown alarm, and stopwatch (ST1) auto start.

To turn Flash Alert on and off

In the Timekeeping Mode, hold down □ for about three seconds to toggle Flash Alert on (Flash Alert indicator displayed) or off (Flash Alert indicator not displayed).

• When Flash Alert is turned on, the Flash Alert indicator remains on the display in all modes.
• Note that pressing □ to toggle Flash Alert on or off will also switch timekeeping between 12-hour and 24-hour format.

Auto Light Switch

While the auto light switch is enabled, illumination turns on whenever you position your wrist as described below in any mode.

Moving the watch to a position that is parallel to the ground and then lifting it towards you at more than 40 degrees causes illumination to turn on.

• Wear the watch on the outside of your wrist.

• In all modes, graphic area A shows the Stopwatch Mode (ST1) minutes (one segment each for 5 minutes, 10 minutes, etc.).
• In all modes, graphic area B shows the Stopwatch Mode (ST2) minutes (one segment each for 5 minutes, 10 minutes, etc.).

Button Operation Tone

The button operation tone sounds any time you press one of the watch's buttons. You can turn the button operation tone on or off as desired.

• Even if you turn off the button operation tone, the alarms, the Hourly Time Signal, the countdown alarm, and stopwatch auto start all operate normally.

Initial Screens

When you enter the World Time or Alarm Mode, the data you were viewing when you entered the mode appears first.

Timekeeping

The watch's built-in full automatic calendar makes allowances for different month lengths and leap years. Once you set the date, there should be no reason to change it except after you have replaced the watch's battery.

World Time

World Time Mode times are calculated from the current Home Site time in the Timekeeping Mode using UTC offset values.

• The seconds count of the World Time is synchronized with the seconds count of the Timekeeping Mode.
• The UTC offset is a value that indicates the time difference between a reference point in Greenwich, England and the time zone where a city is located.
• The letters "UTC" is the abbreviation for "Coordinated Universal Time", which is the world-wide scientific standard of timekeeping. It is based upon carefully maintained atomic (cesium) clocks that keep time accurately within microseconds. Leap seconds are added or subtracted as necessary to keep UTC in sync with the Earth's rotation.

Illumination Precautions

• The electro-luminescent panel that provides illumination loses power after very long use.
• Illumination may be hard to see when viewed under direct sunlight.
• The watch may emit an audible sound whenever the display is illuminated. This is due to vibration of the EL panel used for illumination, and does not indicate malfunction.
• Illumination turns off automatically whenever an alarm sounds.
• Frequent use of illumination runs down the battery.
In December 2007, Venezuela changed its offset from –4 to –4.5. Note, however, that this time is determined by each individual country. The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country. Based on data as of December 2008. The rules governing global times (UTC offset and GMT differential) and summer time are determined by each individual country.